

UNITED STATE DEPARTMENT OF COMMERCE Patent and Trademark Office

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APPLICATION NO.	FILING DATE	FIRST NAMED IN	IVENTOR	, ,	ATTORNEY DOCKET NO.	
09/432,334	11/02/99	GUIDOTTI		R	98-2069	
			· ¬ .		EXAMINER	
023413 CANTOR COLBUR	RN LLP	IM22/0910		MAPLES,	J	
55 GRIFFIN RO				ART UNIT	PAPER NUMBER	
BLOOMFIELD C	T 06002	•		1745	- [1	
	•			DATE MAILED:	09/10/01	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		,,	Applicat	i n N .		Applicant(s)	
Offic		_ ,	09/432,3	334		GUIDOTTI ET AL.	
		Action Summary	Examin	r		Art Unit	
		· .	John S.	•		1745	
Period f		ING DATE of this communic	cation appears on th	ne cover sheet i	with the co	orrespondence ad	ldress
A SHO THE N - Exter after - If the - If NO - Failur - Any re	ORTENED MAILING Designs of time resize (6) MONTI period for reply period for reply er to reply within eply received be	O STATUTORY PERIOD FO DATE OF THIS COMMUNIC may be available under the provisions of the Strom the mailing date of this community by specified above is less than thirty (30 by is specified above, the maximum state in the set or extended period for reply of the Office later than three months after adjustment. See 37 CFR 1.704(b).	CATION. If 37 CFR 1.136(a). In no e inication. I) days, a reply within the stu utory period will apply and itll, by statute, cause the ac	vent, however, may a atutory minimum of th will expire SIX (6) MO polication to become	a reply be time hirty (30) days DNTHS from t ABANDONED	ely filed will be considered timel the mailing date of this co (35 U.S.C. § 133).	y. ommunication.
3 tatus 1)⊠	Pasnons	ive to communication(s) file	ed on 09 July 2001				
2a)☐			b)⊠ This action i				•
3)	Since this	s application is in condition accordance with the practi	for allowance exce	pt for formal m	atters, pro	osecution as to th 53 O.G. 213.	e ments is
Dispositi	on of Clai	ms			•	•	• •
4)🖂	Claim(s)	21-28 ie/are pending in the	application.				
	4a) Of the	above claim(s) is/ar	e withdrawn from c	onsideration.			
5)	Claim(s) _	is/are allowed.					
6)⊠	Claim(s) 2	21-28 ie/are rejected.			•		
7)	Claim(s) _	is/are objected to.					
8) 🗌	Claim(s) _	are subject to restrict	ion and/or election	requirement.			
Applicati	on Papers	3		•		·	
9) 🗀 -	The specifi	ication is objected to by the	Examiner.	•		•	•
10) 🔲 🗆	The drawin	g(s) filed on is/are:	a) accepted or b)	objected to by	the Exan	niner.	•
	Applicant	may not request that any obje	ction to the drawing(s) be held in abe	eyance. Se	ee 37 CFR 1.85(a).	
11) 🔲 🗀	The propos	sed drawing correction filed	on is: a) 🔲	approved b)☐	disappro	ved by the Examin	er.
	• •	ed, corrected drawings are req		Office action.			
12)	The oath o	r declaration is objected to	by the Examiner.	•.			
Priority u	ınder 35 U	J.S.C. §§ 119 and 120	•		•		
13)	Acknowle	dgment is made of a claim	for foreign priority u	ınder 35 U.S.C	. § 119(a))-(d) or (f).	
a)[□All b)[] Some * c) ☐ None of:					
	1. Cer	tified copies of the priority of	locuments have be	en received.			
•	2. Cer	tified copies of the priority o	locuments have be	en received in	Application	on No	
* S		pies of the certified copies of application from the Interna ached detailed Office action	ational Bureau (PC	Γ Rule 17.2(a))).		Stage
14) 🗌 A	cknowled	gment is made of a claim fo	r domestic priority	under 35 U.S.C	C. § 119(e	e) (to a provisiona	I application).
		anslation of the foreign lang					·
Attachment		-					
2) Notic	e of Draftspe	ces Cited (PTO-892) rson's Patent Drawing Review (PT		· =	•	(PTO-413) Paper No Patent Application (PT	

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 21,-27 are rejected under 35 USC 102(e) as being anticipated by Muffoletto et al. (Muffoletto)

Reference is made to claims 1 and 7 of the patent to Muffoletto. It is inherent that with the thickness of the active material being 0.001 inch (25 microns) that the particle size would be within the microstructured size range as claimed in claim 27.

3. Claims 21-27 are rejected under 35 USC 102(e) as being anticipated by Visco et al. (Visco)

See column 4, lines 45-63 of Visco along with column 5, lines 30-55. As stated for the Muffoletto patent above, the particle size of claim 27 is inherent in view of the thickness of the active layer in Visco.

4. Claims 21 and 24-28 are rejected under 35 USC 102(b) as being anticipated by Gay et al.

See Example 1 of Gay and in particular column 5, lines 54-56 for the particle size of the iron sulfide.

5. Claims 21 and 24 26 are rejected under 35 USC 102(b) as being anticipated by Askew et al. (Askew)

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Reference is made to column 2, line 25 through column 3, line 4 of the patent to Askew.

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 21 and 28 are rejected under 35 USC 103 as being obvious over Muffoletto or Visco each taken in view of Gay.

Muffoletto and Visco do not specifically teach a nanostructured iron sulfide. As set forth previously in this action, Gay sets forth a nanostructured iron sulfide in Example 1 of this patent. To utilize in the teachings of either Muffoletto or Visco the 15 nanometer particle size of Gay would have been obvious so that the active material would have been packed more tightly and would have produced a greater power output.

8. The US patent applications cited on pages 12 and 15 of the present application should be updated to show their most recent status.

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9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Though not prior art, Amatucci shows an iron sulfide layer of interest.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Maples whose telephone number is 703-308-1795. The examiner can normally be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gabrielle Brouillette can be reached on 703-308-0756. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

John S. Maples Primary Examiner Art Unit 1745

JSM September 6, 2001